

## CERTIFICATE OF ANALYSIS

Product : POLYVINYL PYRROLIDONE  
Product number : P1368  
Batch number : 017705  
Date of manufacturing : 02-04-2022  
Date of analysis : 03-05-2022  
Date of expiry : 30-04-2025

Packaging and storage : in a well closed, airtight container.

	SPECIFICATION	RESULT	UNITS	REMARKS
Identification	conform	complies		IR-spectrum
Appearance of solution	clear and colour $\leq$ ref.sol. BY <sub>6</sub> , B <sub>6</sub> or R <sub>6</sub>	complies		
pH	3.0 – 5.0	4.0		
K-value	15.3 – 18.4	16.1		
Aldehydes	$\leq 500$	34	mg/kg	
Peroxides	$\leq 400$	50	mg/kg	
Hydrazine	$\leq 1$	<1	mg/kg	
Vinylpyrrolidone	$\leq 10$	< 2	mg/kg	
2-Pyrrolidone	$\leq 3.0$	0.2	g/100 g	
Heavy metals	$\leq 10$	complies	mg/kg	
Lead	$\leq 10$	complies	mg/kg	
Water	$\leq 5.0$	1.4	g/100 g	
Residue on ignition	$\leq 0.10$	complies	g/100g	
Nitrogen	11.5 – 12.8	12.2	g/100 g	

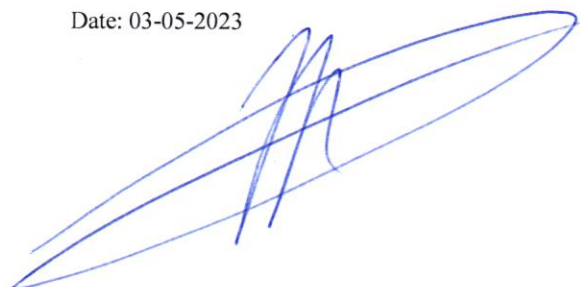
This certificate of analysis is conform the results of the manufacturer.

Conclusion: approved

Released by:

drs. M. van Wissen, pharmacist  
Department of Quality Control Duchefa B.V.

Date: 03-05-2023



The buyer is responsible to test each batch to ensure the product is suitable for their specific purpose.

Duchefa Biochemie B.V.